MEMOIR OF A CHART

OF THE

BAY OF BENGAL,

PUBLISHED AT THE EXPENCE OF THE

UNITED EAST-INDIA COMPANY.

LONDON

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March 31, 1772.

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BAY OF BENGAL.

IT must appear very extraordinary, when it is considered how long the Europeans have had an Intercourse with Bengal, that there is not hitherto a particular Chart of the Bay of Bengal published in any language.

The Honourable Thomas Howe deceased, in the year 1763, after the action with a French Frigate in which he so gallantly defended his Ship, went to the Coast of Orizing in his passage from thence to Bengal he had an opportunity of correcting the Chart of this Coast in the Neptune Oriental: and having reduced to a general Scale all the particular B

Charts in his possession of the Coasts, &c. in the Bay of Bengal, he connected them together in the best manner he could.

Soon after my return to England, in 1765, Mr. Howe gave me a Copy of his Chart; and encouraged me to revife and improve it from what materials I had collected: accordingly I fet about this work and reduced the Coast of Orixa to a scale of 3 Inches to 1°.—the Original, at first only intehded as a correction of the Neptune Oriental, being somewhat more.

Plaisled's Survey of the Coost of Chittageng; served, both in Mr. Howe's Chart and mine, for the description of that Coast; but I added, from other authorities, some Banks remote from the Land.

The Coast of Ava from Nigrain to Obedabe I laid down from various materials; but here I found fo great a difagreement in the Latitudes, even where I was affured all proper alwamene had been made, that I defisted from my intention of having the Chart engraven: however Capt. William Smith and I examined several Journals in the India-House, and laid down many foundings in the tracks across the Bay.

Copies of this Chart were given to feveral persons, amongst others to Capt. Mears and to Capt. Court, who, on their return last Year, testissed the highest approbation of it, particularly concerning the foundings about False Point and Point Palmiras.

On mentioning their fentiments to the Honourable Mr. Howe, in his laft illnefs, and shewing him the copy which the East-India Company had permitted me to take of the late furvey of the Coast of Bengal, he very strongly recommended to me to publish this Chart, from an opinion that it would be

very useful to the Company's Ships, and alledged that my objection concerning the Latitudes was not of weight, as a proper Caution might be given on that head.

Not long fince, in conversation with Mr. Purling, the Chairman of the Court of Directors, saying that I would be at the trouble of engraving this Chart, if the Company would be at the expence, I was induced, from the sentiments he then expressed, to send him soon after a paper of proposals for his perusal, this he communicated to the Court of Directors, who instructed their Secretary to write me a letter encouraging me to execute this work.

When I drew up the propofals I only thought of adding the new furvey to my Chart, and publifhing it in that flate; and had not indeed ferioufly weighed the matter, as it was only a private converfation, but when I received the Company's letter, it became a fubject of publick attention, and it occurred to me that although this Chart was the beff I knew of the Bay of Bengal, it was capable of amendment; and an unbecoming return to the ready encouragement given by the Company, to publish it in its then form; for although it was well enough as a MS Chart, yet a Chart prefented to the Publick ought to be as compleat as materials will admit.

On mentioning this to Mr. Purling, and observing that it would be necessary for me to new-draw the whole, he said what I alledged was just, and that he was convinced, as he at first told me, that it would cost much more than I reckoned, but that the Gentlemen of the Direction approved of it greatly, as they thought it would be very useful, and therefore begged me to go on with it and be assured that the Company would desiray the expense.

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The very handsome manner in which Mr. Purling behaved on the occasion has a claim, not only to my acknowledgement, but to that of the Publick, as to him, they are, in good measure, indebted for this Chart.

It was at first proposed to have engraved the Chart on two plates, comprehending the Bay with the Coasts of Ava, Orixa, &c., from 16°,-N, but on more mature confideration I have been induced to make one plate from 19° .- N, comprehending both Coasts: the Coasts to the Southward of this Latitude are the least material, but will take most time and trouble to lay down, which would retard the publication; the present limit comprehends the extremity of the Bank of Soundings; the former plan, of carrying the Chart down to 160.-N, would have rendered it of an inconvenient fize, when the two plates were united, and have occasioned a great blank by the open sea between the Coasts of Ava and India: which Coasts may, with more propriety, be engraven by themselves, should the materials for describing them be found fufficiently compleat for forming Charts worthy the attention of the Publick.

I have here given the Hiftery of this Chart from its first formation; and shall now particularly explain the various materials from which it was laid down in the state it now appears.

The polition of Calcutta, in 22°. 34′. 43″ N and in 88°. 33′. 15″ E Long, fr. Greenwich, is from the observations of the Honourable Mr. Howe; the Latitude taken by an aftronomical Quadrant made by Mr. Bird,

1764, March {4th - - - 22°. 34′. 40″.} N.

The Longitude deduced from an Emersion of Jupiter's 1st Satellite on the 6th March 1764.

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The Situation of Islamabad, in 22°. 20' N Latitude, 91°. 45 E Long, fr. Greenwich, was deduced by the Islamamer Royal from the Observation made there of the Transit of Venus in 1761.

The difference of Longitude between Calcutta and Islamahad by these observations 3°.11′.45″. is scarcely a mile different from the late survey, so that it may reasonably be presumed these places are exactly determined.—At the sume time 1 do not mean to infinuate that any two astronomical Observations can be consided in for the determination of so small a distance as a mile.

These are the only observations I have of the Longitudes taken ashore.

Ganjam Flagftaff is in 19°. 25' N Lat. 85°. 17' E Long-by Observations of 0 and t taken there in September 1770 by Mr. Mears Chief Mate of the Egmont; Mr. Howe places Ganjam in 19°. 22'. 30" N which is 2'. 30" more to the southward. And, by the dislance from the Falje Peint, in 85°, 6' E Longitude, which is only 11' different from the Longitude observed by Mr. Mears; I have laid it down by Mr. Howe's-Chart. Having copied the Coast, from Ganjam to the Flat fandy P'n near the Black Pageda, from that Chart.

From this Point to the False Point I have made a deviation from the Chart, to infert a Plan of Podzon or Codgons, communicated by Mr. Herbert, this Plan was made by W. Helman 1742. The Island at the W* Extremity of this Bay is called, in the plan, the False Point, but, as the Land trends away to the Eaflward, this would be entirely incompatible with the Survey from P* Palmiras to False Point: which Survey also describes False Bay quite differently from Helman's plan of Codgons, of which place I have some other sketches and memorandums similar to the Plan. The double Bank in

Mr. Howe's

Mr. Howe's Chart pointed out to me the position of Codgon!, the W* Sand being (as I suppose) off Hdman's False P. (which I shall call Codgone P*) the E* Sand off the False P* of the Survey; Mr. Howe's Latitude of False P* being somewhat more foutberly than the Land is described in the Survey, I have continued the Land to Mr. Howe's Latitude; a memorandum in Helman's plan confirms the alteration I have made by inferting Codgone! in this place, for he says, speaking of some Trees laid down in his plan*, "These bearing N. you "have soft ground," which bearing is just cher of Mr. Howe's W* Sand and corresponds to the must gop he describes, which it is very natural to expect as the River of Cuttack falls into this bay.

The infertion of Codgoné bay carries the Land from Falje Point more Western than in Mr. Howe's Chart, and, confequently, the Land from the Black Pagoda more Northerly than Mr. Howe describes it; this is very consonant to the Neptume

Oriental.

The Survey fent to the Company from Bengal bears the name of John Ritchie, but it is faid great part of it was made by Plaifted: It is not accompanied with any explanation; it has been reduced, and this reduction implicitly followed from False Point to Chittagong; but the Coast of Chittagong appearing to be taken, not from Plaisted's Survey, but from his first sketch, I have preferred Plaisted's Survey in 1761, to this Part of the New Chart: however I have added some dangers omitted by Plaistad; it is to me very obvious that the dangers on this Coast are very far from being yet exactly described.

I have added the River to Calcutta, and traced the other Channels up from their Mouths.—My intention in tracing the rivers was to point out the direction of the Stream, that Ships may avoid it, or take the advantage of it, according to circumfances.

I find the Tails of the Sands, at the Mouth of Bengal River in the SURVEY, by no means conformable to the Journals of Ships; should I hereafter publish the chart of the Coast of India, I may perhaps make it comprehend the Sands laid down from the Journals, which would be useful as a caution.

The Eoft-fide of the Bay, to the Southward of Red-Crab Island, having been lately surveyed, I thought it would be improper to insert this Coafs in the Plate, till the Survey is received; I shall therefore make a particular Plate of it from the bearings and observations I have met with, and in this Plate the Soundings from the Coafs of Arrackan to the Swatch or Gut of no ground will be inserted: it will be on the same scale and is intended to be passed to the chart now published.

Since this Memoir was printed I have received from the India-House a Chart of the Bay and River of Bengal, by Philip Parsons, 1743-4: in this Chart Codgone Bay is, in figure,. little different from Helman's plan ; but N in that, is E in Helman's: Parsons says the river (marked 3 in the Chart) " vents-" near the Black Pagoda," this it would do according to the direction Helman gives it; but Parsons's Chart makes the Mouth of it a little to the Southward of Codgoné Point, or, what he calls, the False Point; several other notes in Parsons's Chart are equally contradictory to the bearings in his chart, though these notes are very consonant to Helman's bearings; Parsons says, "these Trees bearing N. [vide 1 in chart] you'll be " in foft mud," which bearing in his chart leads over the gravelly bank; -again he fays, " this Tree [vide 2 in chart] bearing N. " in 7 fath, mud, a W N W course will carry you to the "River's Mouth;" whereas, by his chart, this Tree bearing N is in a line over the Land into the River .- I therefore conclude Parsons has inserted the Plan of Codgone Bay erroneously, by asfuming. fuming the known bearings of Point Palmiras and the False Point, being misled by Codgone Point being named the False Point.

My intention was to have accompanied this Chart with some Nautical Instructions and Observations; but I am not yet master enough of the Subject to attempt any thing of this nature; and find it has already employed much more of my time and attention than I expected or could conveniently bestow: and although all plain matters of sact are useful, illgrounded deductions may be very prejudicial.

Soho-Square, 16 Sept. 1772. ALEXANDER DALRYMPLE.

FORTEGNELSE

PAA

DE	KAARTER OG LANDTONINGER,	80M
	HÖRE TIL DENNE BERETNING.	0011

		J. ()	E RAARI over en Deel af den WESTLIGE
	KYST	af	IISLAND fra FUGLE-SKIÆRENE til
	STIK	KEL	SHOLM i BREDE-BUGTEN. (*)
			THE PEREDE-BUGIEN. (*)
LANDT	ONIN	G af	WEST- eller SNEE-FIELDS-JÖKE-
	LEN		" SNEE-FIELDS - JOKE.
	~~		paa Pag. 7.
LANDT	ONIN	G af	famme under en anden Frastand paa Pag. 16.
فلا	MAAI	(1 0	ver THORSHAVN med en Landto-
	ning		mod Pag. 17.
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C	-	-	BOESANDS-HAVN - mod Pag. 18.
D	-	_	KIEBLEVIIG mod Pag. 19.
E	-	-	WASLÖSEVIIG - mod Pag. 20.
F			STRÖMSVIIG - mod Pag. 21
-		٠.	STROMSVIIG mod Pag. 21
G			HAVAIDBIONE
G	-	-	HAVNEFIORD - mod Pag. 24.

Plade

^(?) De Kaarter fom her ere beregnede med * vore for ftore til at indbinder, og folge derfor bose med Varket.

Plade	H	SPECIEL-KAART fra KIARLARNÆS til MÖLS-
		HOFDE indbefattende KOTLE-FIORD, HOLMENS
		HAVN og SKIÆRIA-FIORDEN med flere, og er
		Landtoning. (*)

- AAART over HVAL-, BORGER- og STRAUNS-FIORDENE med 2de Landtoninger paa (*)
- Fortoning af Indlobet til STRAUNSFIORDS-HAVN paa P. 36.
 - KAART over STAPPENS- og BUDENSTADS-REEDER med Landtoning - · - mod Pag. 38.
 - I Indfeilingen til GRÖNNEFIORD, KOL-GRAVERFIORD, CUMBERVOOG og STIKKELS-HOLM, beliggende i BREDE-BUGTEN. (*)
 - M LANDTONINGER af den WESTLIGE KYST af

 IISLAND - mod Pag. 50.
 - Udkast as GRINDEVIIGS HAVN for Indsciling og Fortonings Mærkerne.
 - IN LANDTONINGER af den SYDLIGE KYST af

 IISLAND mod Pag. 60.
 - WESTLIGE of Dito . mod Pag. 72.

